| **PROFESSOR:** |   |
| --- | --- |
| **OFFICE LOCATION:** |   |
| **OFFICE HOURS:** |   |
| **PHONE NUMBER:** |   |
| **E-MAIL:** |   |
| **SEMESTER:** |   |
| **DELIVERY METHOD:** |   |

# COURSE NUMBER AND TITLE, CATALOG DESCRIPTION, CREDITS:

## CVT 1200 Cardiovascular Pharmacology (3 Credits)

This course is designed to provide the cardiovascular technology student with a foundation of the pharmacology needed to function in clinical experiences. This includes classifications of medications, modes of action, indications, contraindications, and their effect on the cardiovascular system and cardiac patients. The course also prepares the student to recognize basic cardiac arrhythmias, understand basic radiographic theory, safety protection, and cardiac catheterization laboratory equipment.

## PREREQUISITES FOR THIS COURSE:

RET 1024

### CO-REQUISITES FOR THIS COURSE:

RET 1613C, CVT 1800L

## GENERAL COURSE INFORMATION:

Topic Outline

The student will gain an understanding of the members involved in the cardiac cath lab team as well as the cardiac catheterization general procedure, indications and contraindications and differentiate between right and left heart cath. The student will also gain an understanding of general pharmacology principles, specifically those involving cardiovascular technology and medications utilized for cardiac patients. The student will gain an understanding of basic ECG arrhythmia analysis and anti arrhythmic medications. The student will also review basic equipment and tools utilized in the cardiac catheterization lab and will be introduced to radiography principles and radiation safety. Patient relations, ethics and confidentiality will also be presented.

The student will demonstrate knowledge in, discuss and apply the concepts relevant to:

The cardiac cath lab team

The cardiac catheterization general procedure

Differentiate between right and left heart caths.

General pharmacology principles

Cardiovascular pharmacology

Basic ECG arrhythmia analysis and anti-arrhythmics

Equipment and tools utilized in the cardiac catheterization lab

Patient relations, ethics and confidentiality

## ALL COURSES AT FLORIDA SOUTHWESTERN STATE COLLEGE CONTRIBUTE TO THE GENERAL EDUCATION PROGRAM BY MEETING ONE OR MORE OF THE FOLLOWING GENERAL EDUCATION COMPETENCIES:

**C**ommunicate clearly in a variety of modes and media.

**R**esearch and examine academic and non-academic information, resources, and evidence.

**E**valuate and utilize mathematical principles, technology, scientific and quantitative data.

**A**nalyze and create individual and collaborative works of art, literature, and performance.

**T**hink critically about questions to yield meaning and value.

**I**nvestigate and engage in the transdisciplinary applications of research, learning, and knowledge.

**V**isualize and engage the world from different historical, social, religious, and cultural approaches.

**E**ngage meanings of active citizenship in one’s community, nation, and the world.

A. General Education Competencies and Course Outcomes

1. Listed here are the course outcomes/objectives assessed in this course which play an integral part in contributing to the student’s general education along with the general education competency it supports.

 General Education Competency: Investigate

 Course Outcomes or Objectives Supporting the General Education Competency Selected:

 The student will be able to apply the concepts of myocardial oxygen supply and demand, preload, afterload, contractility and determine their relationship to disease conditions and treatment options, as assessed by written and multiple choice exams.

2. Listed here are the course outcomes/objectives assessed in this course which play a supplemental role in contributing to the student’s general education along with the general education competency it supports.

General Education Competency: Think

 Course Outcomes or Objectives Supporting the General Education Competency Selected:

 The student will be able to explain how medications and other treatments can enhance or inhibit the sympathetic or parasympathetic nervous system activity, as assessed by exams.

 The student will be able to describe the physiology of the autonomic nervous system and relate to effects on preload, afterload and contractility, as assessed by exams.

General Education Competency: Evaluate

 Course Outcomes or Objectives Supporting the General Education Competency Selected:

 The student will be able to examine a variety of patient information and test results to determine condition, severity, diagnosis and treatment, as assessed by written and multiple choice exams.

## DISTRICT-WIDE POLICIES:

### PROGRAMS FOR STUDENTS WITH DISABILITIES

Florida SouthWestern State College, in accordance with the Americans with Disabilities Act and the College’s guiding principles, offers students with documented disabilities programs to equalize access to the educational process. Students needing to request an accommodation in this class due to a disability, or who suspect that their academic performance is affected by a disability should contact the Office of Adaptive Services at the nearest campus. The office locations and telephone numbers for the Office of Adaptive Services at each campus can be found at <https://www.fsw.edu/adaptiveservices>.

### REPORTING TITLE IX VIOLATIONS

Florida SouthWestern State College, in accordance with Title IX and the Violence Against Women Act, has established a set of procedures for reporting and investigating Title IX violations including sexual misconduct. Students who need to report an incident or need to receive support regarding an incident should contact the Equity Officer at equity@fsw.edu. Incoming students are encouraged to participate in the Sexual Violence Prevention training offered online. Additional information and resources can be found on the College’s website at <https://www.fsw.edu/sexualassault>.

## REQUIREMENTS FOR THE STUDENTS:

List specific course assessments such as class participation, tests, homework assignments, make-up procedures, etc.

## ATTENDANCE POLICY:

The professor’s specific policy concerning absence. (The College policy on attendance is in the Catalog and defers to the professor.)

## GRADING POLICY:

Include numerical ranges for letter grades; the following is a range commonly used by many faculty:

| **Grade Percent** | **Letter Grade** |
| --- | --- |
| 90 - 100 | A |
| 80 - 89 | B |
| 70 - 79 | C |
| 60 - 69 | D |
| Below 60 | F |

(Note: The “incomplete” grade [“I”] should be given only when unusual circumstances warrant. An “incomplete” is not a substitute for a “D,” “F,” or “W.” Refer to the policy on “incomplete grades.)

## REQUIRED COURSE MATERIALS:

(In correct bibliographic format.)

## RESERVED MATERIALS FOR THE COURSE:

Other special learning resources.

## CLASS SCHEDULE:

This section includes assignments for each class meeting or unit, along with scheduled Library activities and other scheduled support, including scheduled tests.

## ANY OTHER INFORMATION OR CLASS PROCEDURES OR POLICIES:

(Which would be useful to the students in the class.)